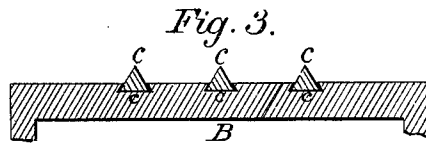
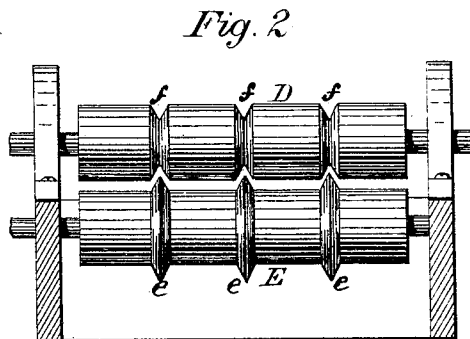
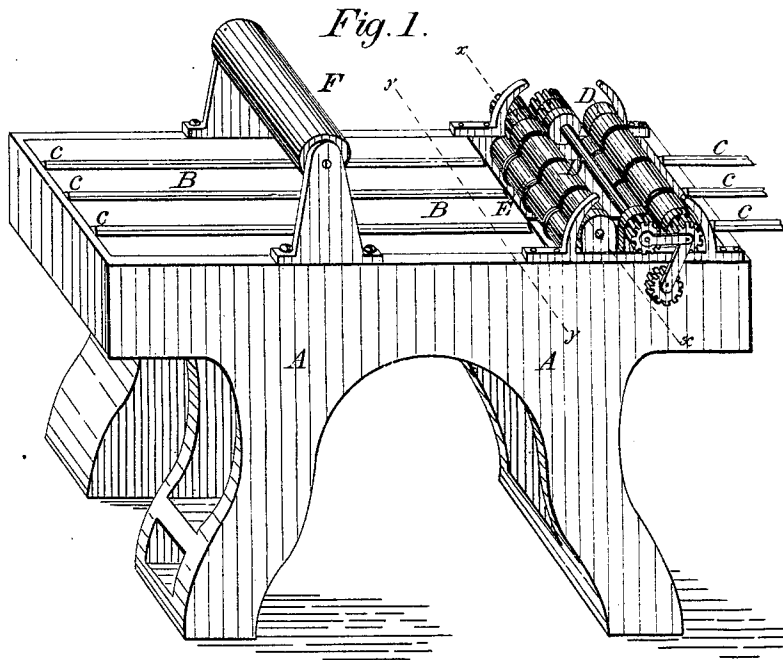


N. M. MILLER.
WOOD-MOLDING MACHINE.

No. 183,697

Patented Oct. 24, 1876.



Attest:
Wm. Bagger
August Petersohn.

Inventor:
Niles M. Miller,
by Louis Bagger.
att'y.

UNITED STATES PATENT OFFICE.

NILES M. MILLER, OF MOLINE, ILLINOIS.

IMPROVEMENT IN WOOD-MOLDING MACHINES.

Specification forming part of Letters Patent No. **183,697**, dated October 24, 1876; application filed January 10, 1876.

To all whom it may concern:

Be it known that I, NILES M. MILLER, of Moline, in the county of Rock Island and State of Illinois, have invented certain new and useful Improvements in Wood-Molding Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a perspective view. Fig. 2 is a transverse vertical section through the plane indicated by line *x x* in Fig. 1; and Fig. 3 is a transverse vertical section through the plane indicated by line *y y* in the same figure.

Similar letters of reference indicate corresponding parts in all the figures.

This invention relates to that class of machines that are used for the purpose of planing off and "finishing" semicircular and V-shaped wooden eavestroughing as it comes from the sawing-machine; and it consists in the combination of a bed provided with parallel removable guides or forms, with feed-rolls having projections and depressions corresponding to the shape of said guides or forms, substantially as I shall now proceed more fully to describe.

In the drawing, A is the frame, and B is the bed, of the machine. This has a series of parallel dovetailed slots or grooves, *c*, into which are inserted, removably, the forms or guides C. The feed-rolls D and E (of which there may be one or more sets) are constructed as shown in Fig. 2, the lower roll E having circumferential projections *e*, and the upper roll D having circumferential grooves *f*, arranged respectively at a distance from each other corresponding to the distance between the forms C on the bed of the machine. The projections *e* on roll E correspond in shape and dimensions to the forms C, and the circumferential grooves or depressions in the upper roll D are of a configuration corresponding to that of the

outside of the troughing or "stuff" as it comes from the sawing-machine. The lower roll E is sunk into a recess in the bed of the machine in such a manner that its projections *e* are on a level with the forms or guides C, and the upper roll D is journaled in spring-bearings in the usual manner, so as to exert pressure upon the stuff as it passes between the projections *e* and circumferential grooves or recesses *f*. F is the cutter-head, to which are affixed, in the usual manner, knives or cutters for the shaping of the upper side of the stuff after it leaves the feed-rolls D and E.

In the drawing, I have shown a set of three parallel triangular forms or guides, C, inserted into the parallel grooves or mortises *c* of the bed of the machine; but it is obvious that forms of any other shape may be substituted, and also that their number may be increased or decreased at will. The upper and lower feed-rolls D E are detachable from their bearings, and may be changed for others corresponding to the shapes of the upper and lower surfaces, respectively, of the stuff fed into the machine.

I am aware that it is not new to use feed-rolls having circumferential projections or depressions in a wood-molding machine, and I do not therefore claim such rolls, broadly; nor do I claim, broadly, a bed-piece corresponding in shape to the configuration of said feed-rolls; but

What I claim, and desire to secure by Letters Patent of the United States, is as follows—

The bed B provided with parallel guides C, in combination with the feed-rolls D and E, constructed as described, and for the purpose set forth.

In testimony that I claim the foregoing as my own, I have hereunto affixed my signature in presence of two witnesses.

NILES M. MILLER.

Witnesses:

LOUIS BAGGER,
WM. BAGGER.